



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

PRELIMINARY ISSUE

654.6510

Job Sheet 211701



Part No: 654.6510

Job Qty: 3 pcs

Part Name: Diffuser Cap -4



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 7/24/20

Job Tracking No:

Due Date: 7/31/20

Created By: Jennifer Renwick

Type: SOLD

Description:

Note: 654.6500 REV.PR2 IPP REV:A 20.07.21 NEW ISSUE DD VERF:JFS

Ship Via:

139 Valve

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	SL-154 - 1	3 pcs	7/31/20		1.00	1.00	Doosan - 1		
							NLX 2500SY - 1		DAS
							SL-154 - 1		33 20/08/06
							SL-2500Y - 1		9-89
110	QC 2	3 pcs	7/31/20		0.00	0.00	QC 2 - 1		
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		68-6
							QC 2 - 33		33 20/08/06
							QC 2 - 35		DAS
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		
							QC 2 - 50		
							QC 2 - 51		
							QC 2 - 52		
							QC 2 - 57		
							QC 2 - 62		
							QC 2 - 63		
							QC 2 - 8		



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S292496



Part: 654.6510

Job No: 211701

Serial No/Batch: S292496

Revision: REV.PR2

Inspector:

Exp Date:

Instructions:

Date: 08/06/20

Plex 7/24/20 11:34 AM Dart.Renwick.Jennife

					QC 2 - 66	
					QC 2 - 64	
					QC 2 - 65	
					QC 2 - 5	
					QC 2 - 71	
					QC 2 - 73	
					QC 2 - 69	
					QC 2 - 76	
					QC 2 - 86	
					QC 2 - 83	
120	QC 8	3 pcs	7/31/20	0.00 0.00	QC 8 - 12	
					QC 8 - 14	20/08/17
					QC 8 - 17	
					QC 8 - 20	
					QC 8 - 25	
					QC 8 - 3	
					QC 8 - 32	
					QC 8 - 33	
					QC 8 - 35	
					QC 8 - 39	
					QC 8 - 4	
					QC 8 - 44	
					QC 8 - 45	
					QC 8 - 49	
					QC 8 - 58	
					QC 8 - 8	
					QC 8 - 9	
					QC 8 - 68	
					QC 8 - 67	
					QC 8 - 1 (A)	
					QC 8 - 47	
					QC 8 - 40	
					QC 8 - 52	
					QC 8 - 23	
					QC 8 - 57	
					QC 8 - 76	
					QC 8 - 61	
					QC 8 - 66	
					QC 8 - 73	
					QC 8 - 82	
130	Outsource - 17 - Passivate	3 pcs	7/31/20	0.00 0.00	GR0002	2020-08-18
140	Packaging 2-1 - Receive - B4B	3 pcs	7/31/20	0.00 0.00	Packaging 2 - 1 - B4B	
					Packaging 2 - 2 - B4B	
					Packaging 2 - 3 - B4B	
					Packaging 2 - 5 - B4B	
					Packaging 2 - 4 - B4B	
					Packaging 2 - 6 - B4B	
					Packaging 2 - 7 - B4B	
					Packaging 2 - 8 - B4B	
					Packaging 2 - 9 - B4B	
					Packaging 2 - 10 - B4B	
					Packaging 2 - 11 - B4B	
					Packaging 2 - 12 - B4B	
					Packaging 2 - 13 - B4B	
					Packaging 2 - 14 - B4B	
					Packaging 2 - 15 - B4B	
					Packaging 2 - 16 - B4B	
					Packaging 2 - 17 - B4B	
					Packaging 2 - 18 - B4B	

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					Packaging 2 - 19 - B4B	
					Packaging 2 - 20 - B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 37 - B4B	
150 QC 6	3 pcs	7/31/20	0.00 0.00		QC 6 - 9	
					QC 6 - 68	
					QC 6 - 61	
					QC 6 - 40	
					QC 6 - 81	
					QC 6 - 82	
160 Packaging 3-1 - Stock - B4B	3 pcs	7/31/20	0.00 0.00		Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 37 - B4B	
170 QC 21 - SA	3 pcs	7/31/20	0.00 0.00		QC 21 - SA - 21	
					QC 21 - SA - 70	
					QC 21 - SA - 9	

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AUG 31 2020

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Part Op 100 - ****CRITICAL PART - EXTREME CARE MUST BE TAKEN**** MUST ENSURE THE COMPONENTS ARE NEVER DAMAGE**** 1-Machine as per folio FD345 FOLIO REV: AA DWG REV: RR2 2-Debur

110 - QC2- Inspect parts off machine FAI/FAIB

120 - QC8- Inspect parts - second check

130 - Issue P/O; 46925 PASSIVATE IAW QQ-P-35C, TYPE II -Material type; 303 stainless steel -Certificate of Conformity is required

140 - Certificate of Conformity is required

150 - QC6- All purchased or subcontracted products

160 - Identify as per dwg & Stock ****CRITICAL PART - EXTREME CARE MUST BE TAKEN**** MUST ENSURE THE COMPONENTS ARE NEVER DAMAGE****

170 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M303R0.750	303 Round Bar 0.750	.2130 ft (.071 ea)	100-SL-154 - 1	<u>5281599</u>

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-SL-154 - 1	M303R0.750	0	5	0
Part Specifications				
Specifications could not be found.				

Plex 7/24/20 11:34 AM Dart.Renwick.Jennifer

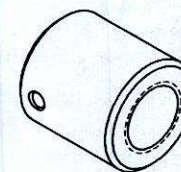
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

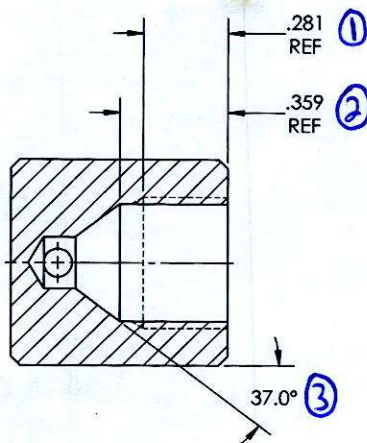
NOTES:

- 1 MATERIAL: 303 STAINLESS STEEL IAW AMS 5640
- 2 FINISH: PASSIVATE IAW MPP-172 SECTION 6.1
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120
5. SURFACE FINISH ⁶³ UNLESS OTHERWISE SPECIFIED

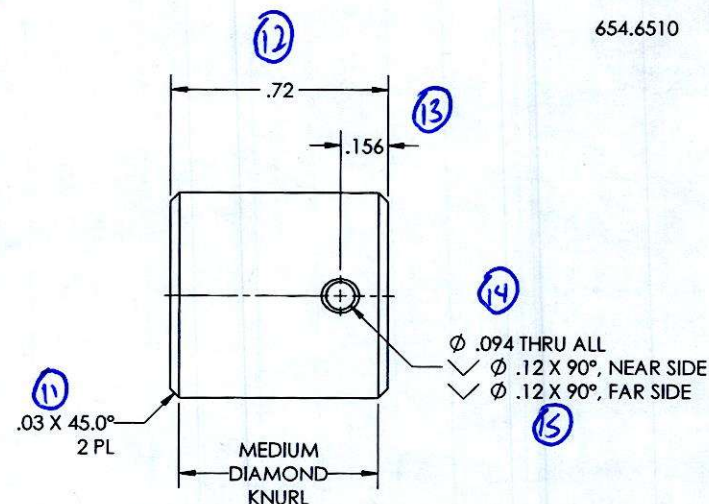
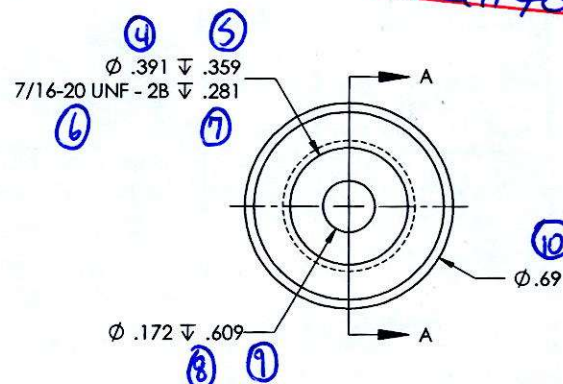
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 211701



654.6510



SECTION A-A



QTY	F/N	P/N	DESCRIPTION	MATL	SPEC.
8	654.6517		FLARELESS DIFFUSER CAP -10	△	△
7	654.6516		FLARELESS DIFFUSER CAP -8	△	△
5	654.6514		FLARELESS DIFFUSER CAP -4	△	△
4	654.6513		DIFFUSER CAP -10	△	△
3	654.6512		DIFFUSER CAP -8	△	△
2	654.6511		DIFFUSER CAP -6	△	△
1	654.6510		DIFFUSER CAP -4	△	△

PROTOTYPE REVISIONS						
ZONE	REV	DESCRIPTION	DATE	APPROVED	CHANGE CODE	REVISOR
-	PR1	INITIAL PROTOTYPE RELEASE	07-08-2020	T. CROSS	-	K. TAILOR
C1-5 C1-6 C1-7	PR2	ADDED Ø .4375-.4501 DIMENSION ADDED Ø .7500-.7656 DIMENSION ADDED Ø .8750-.8924 DIMENSION	07-17-2020	T. CROSS	MDI	K. TAILOR

PARTS LIST		DART AEROSPACE	
QTY	DESCRIPTION	3030 ENTERPRISE CT., SUITE A	VISTA, CA. 92081
NEXT ASSY (S)	650.5300	(760)-724-5300	
ORIGINAL DATE	07-08-2020		
DRAWN BY	JEAN		
CHECKED BY	JEAN		
DRAWING APPROVAL			
T. CROSS			
07-16-2020			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED		DART AEROSPACE	
DIMENSIONS ARE IN INCHES		DIFFUSER CAP	
TOLERANCES ARE:		SIZE B	
2 PLACE DECIMALS ± .01		CAGE CODE 07M26	
3 PLACE DECIMALS ± .005		DWG. NO. 654.6500	
ANGLES ± 3°		REV PR2	
		SCALE NONE	
		SHEET 1 OF 7	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor		
			QC / QA Coordinator		
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB046925



Supplier: GRO002-VC
Group Altech
2455 Halpern
St Laurent
QC
H4S 1N9 Canada
Phone: 514-335-3666
Fax: 514-335-3868

Attention: Grenon, Sylvie

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB046925

PO Date: 8/18/20

Due Date: 8/26/20

Purchase Order

Revision:

Revision Date:

Issued By: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground

Pynt Terms: Net 60

Freight Terms:

Special Comments:

E-MAILED
2020-08-26

Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	211696	650.7401	650.7400 REV.PNC1	Solenoid Assembly Issue PO: PASSIVATE IAW- 172 section 6.1 *****Plunger only***** Individually wrap plungers and bring to outsource rack Retain solenoid body's in machining department	Firmed - X5	-	8/26/20	5 pcs	0 pcs	5 pcs	\$7.6923/pcs	\$38.46
2	211660	654.6410	654.6400 REV-PR2	Fill Port -Issue P/O; PASSIVATE IAW QQ-P-35C, TYPE II -Material type; 303 stainless steel -Certificate of Conformity is required	Firmed - X5	-	8/26/20	5 pcs	0 pcs	5 pcs	\$7.6923/pcs	\$38.46



Dart Aerospace Ltd.
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Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB046925



Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	211701	654.6510	654.6500 REV.PR2	Diffuser Cap -4 -Issue P/O; PASSIVATE IAW QQ-P-35C, TYPE II -Material type; 303 stainless steel -Certificate of Conformity is required	Firmed <i>X3</i>	-	8/26/20	3 pcs	0 pcs	3 pcs	\$7.6923/pcs	\$23.08

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AUG 26 2020

Grand Total: \$100.00

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 8/24/20 10:58 AM Dart.Guerin.Kimberley



Certificat de Conformité / Certificate of Compliance



0 3 0 3 5 6 - 1

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9
 Tel: 514-335-3666 Fax: 514-335-3868
 www.groupaltech.com

Bon de Livraison / Packing Slip

030356 - 1

Livré à / Ship to

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 Tel.: 613-632-5200 Fax.:

Client / Customer:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 BUYER:

Date expédition Ship date		Créé Par Generated By		Transport / No de Compte Courrier / Acc. No.		Bon de commande Client Customer Purchase Order No.				
24-Aug-2020		Ian Wilson				POHB046925				
#Ligne Line#	No. de Série / # Pièce Part Number /Line Item Details Job # / Ref #	Description pièce(s)		CATG. U/M	Comm. /Ordered	Exp/ Shipped	Quantités / Quantities Qté NC/ NC Qty		Qté Scrap	À venir/ Back Order
1	650.7401 Rev.PNC1	650.7401 01 -PASSIVATION-DICHROMATE [PASSIVATION BICHROMATE] PASSIVATION AMS 2700/QQ-P-35C TYPE II IAW-172 SECTION 6.1 MATERIAL TYPE 303 STAINLESS STEEL		PASSIVATION CH	5	5	0	0	0	
2	654.6410 Rev.PR2	654.6410 01 -PASSIVATION-DICHROMATE [PASSIVATION BICHROMATE] QQ-P-35C, TYPE II MATERIAL TYPE; 303 STAINLESS STEEL		PASSIVATION CH	5	5	0	0	0	
3	654.6510 Rev.PR2	654.6510 01 -PASSIVATION-DICHROMATE [PASSIVATION BICHROMATE] QQ-P-35C, TYPE II MATERIAL TYPE; 303 STAINLESS STEEL.		PASSIVATION CH	3	3	0	0	0	

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RECEIVED
AUG 24 2020
DISTRIBUTION

19

DAS
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9-89

Notes Additionnelles / Additional Notes

7 Packages

Epaisseur réelle
Actual Thickness

Inspecteur Qualité
Quality Inspector

Réçu par
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.
 Our financial and legal responsibility will not be higher than the amount of invoice.

5/28/2020

PURCHASE ORDER



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB046506



Items													
Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5		M303R0.750			303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	-	6/4/20	48 ft	0 ft	48 ft	\$6.4995/ft	\$311.98
												JUN 08 2020 DAS 82 9-89	Grand Total: \$3,536.98

48
ft
6/6/20

JUN 08 2020
DAS
82
9-89

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable). No Raw Metals from China or Soviet Bloc Countries. (DFARS)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program.
- A049 supplier awareness.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Sharon

Plex 5/28/20 4:42 PM Dart.Guerin.Kimberley

LINES 5

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303 R 0.750

PO / BATCH NO.: POMB046506

DATE: JUN 08 2020

5281599

MATERIAL CERT REC'D: YES

THICKNESS ORDERED: 0.750

QUANTITY RECEIVED: 48FT

THICKNESS RECEIVED: 0.750

QUANTITY INSPECTED: 48FT

SHEET SIZE ORDERED: —

QUANTITY REJECTED: —

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A582
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	F22R
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

T-303

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____	SIGNED OFF BY: _____
DATE: <u>JUN 08 2020</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

thyssenkrupp Materials NA



thyssenkrupp

thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7



DATE: 06/02/2020
DOC. NO: 2407533774*
BOL. NO: 2407533774
ORDER NO: 1404525653
YOUR P/O: POHB046506
CUSTOMER NO: 10058125
Route: 303-A
CONTACT: Lucy Truglio
TEL:
FAX:
EMAIL: lucy.truglio@thyssenkrupp.com

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1	QTY2	PACKAG
0010	NAS / DFARS ASTM A582 R/L 144" - 146" SSRD00076 T-303 Stainless Steel Round 0.7500 (+-.002) X 144 Mill Length Actual Chemistry/Act. Physical Standard Packaging		4 PC 72 lb	1011002928

**CERTS MUST INCLUDE TENSILE, YIELD, ELONGATION,
AND REDUCTION OF AREA**

TAGNUM	QTY	UOMVEND	VENDPO	HLQT	PCS	COM
2001745742	4	PC	NORTH AME 5400483276	F22B/BL0097 0	4	
SAE AMS 5640 V;ROHS COMPLIANT;ASTM A 484/A 484M 2018;ASTM A 582/A 582M 2012						

Total Gross Weight

74.000 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID

RECEIVED

JUN 05 2020

DART AEROSPACE LTD.



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 587421 3 Mail To:
THYSSENKRUPP MATERIALS CA LTD
Customer: 007205 001 4700 CHEMIN DU BOIS FRANC
SAINT LAURENT, QC H4S 1A7

Ship To:
THYSSENKRUPP MATERIALS CA LTD
4700 CHEMIN DU BOIS FRANC
SAINT LAURENT, QC H4S 1A7

Date: 3/18/2020 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 5400483276

NAS Order: PN 0113141 01

Heat Treat Code: 57,907

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30300, ASTM A582/17 EN 10204 3.1, ASTM A484/19
AMS 5640V TYPE 1, QQS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE
2011/65/EU. RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BL0097 0		.7500		1,203	144.00	1	1	

ANAB, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
F22R	US	.030	.27	17.19	.29	1.87	.334	.039	8.55	.028
		S %	SI %							
		.3195	.42							

DAS
32
9-89

MECHANICAL PROPERTIES

Product Id	1 d o i c =	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BL0097 0	R L	201.0	78.71	105.02	34.23	27.30

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

3/18/2020

From: TK Materials CA, Ltd.
Cust. DART AEROSPACE LTD
Cstar
Wgt.: 72 LB

Del.: 2407533774

Cstar POHB046506

Date 05/29/2020

Handwritten signature